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TRANSMITTAL LETTER TO THE UNITED
STATES DESIGNATED/ELECTED OFFICE
(DO/EO/US) CONCERNING A FILING
UNDER 35 U.S.C. 371

Date of Mailing:
03 April 2006

Attorney Docket No.
CHOP.0257-US

U.S. Application No. (if known)
Not yet assigned
10/574388

Express Mail Label No.:
EL997340993US

Int'l Application No.
PCT/US2004/032577

Int'l Filing Date
04 October 2004

Priority Date Claimed
03 October 2003

TITLE OF INVENTION

METHODS OF ESTABLISHING INTERCELLULAR COMMUNICATION IN AN ENDOTHELIAL CELL
LAYER AND USES THEREOF

Applicant(s) for DO/EO/US
DEPAOLA, Natacha; POLACEK, Denise

+Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

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~~ADDITIONAL INFORMATION ON ADD 2004~~
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U.S. Application No. Not yet assigned						International Application No.							
10/574388						PCT/US2004/032577							
20. Other items or information:													
The following fees are submitted: 21. [X] BASIC NATIONAL FEE \$300									Calculations \$300			PTO Use only ----- 	
22. [X] Examination Fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33 (1)-(4) \$0 All other situations \$200									\$200			----- 	
23. [X] Search Fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33 (1)-(4) \$0 Search Fee(37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400 All other situations \$500									\$100			----- 	
Total of 21, 22, 23									\$600				
[] Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821 (c) or (e) or computer program listed in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets No. of each add'l 50 or fraction thereof (round up to whole number) 119 -100 = 1/50 = x \$250									\$0			----- 	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492 (h)).									\$0				
Claims	Number Filed	Number Extra	Rate										
Total Claims	28-20	=	8	50	\$400								
Independent Claims	8-3	=	5	200	\$1,000								
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$0									
TOTAL OF ABOVE CALCULATIONS									\$2,000				
[X] Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2									\$1,000				
SUBTOTAL =									\$1,000				
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f))									\$0				
TOTAL NATIONAL FEE =									\$1,000				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property									\$0				
TOTAL FEES ENCLOSED =									\$1,000				
									Amount to be refunded				
									Amount to be charged				

10/574388**1AP20R-14 PCT/PTO 03 APR 2006**

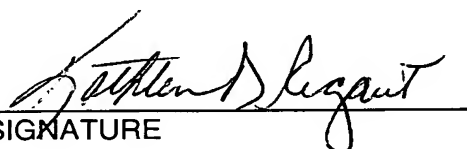
- a. ☒ A check in the amount of \$ 1,000 to cover the above fees is enclosed.
- b. ☐ Please surcharge Deposit Account No. 04-1406 in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 04-1406. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO_2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

CUSTOMER NUMBER 000110

to the attention of the individual listed below.


SIGNATURE

Kathleen D. Rigaut, Ph.D., J.D.
NAME

43,047
REGISTRATION NUMBER

10/574388

AP20 Rec'd PCT/PTO 03 APR 2006

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COMMISSIONER FOR PATENTS P.O. BOX 1450 ALEXANDRIA, VA 22313-1450	DATE OF MAILING 03 April 2006
MAIL STOP <u>BOX PCT</u>	APPLICANT'S OR AGENT'S FILE REF. CHOP.0257-US
IDENTIFICATION OF THE INTERNATIONAL APPLICATION	
INTERNATIONAL APPLICATION NO. PCT/US2004/032577	INTERNATIONAL FILING DATE 04 October 2004
APPLICANT (name) RENSSELAER POLYTECHNIC INSTITUTE; THE CHILDREN'S HOSPITAL OF PHILADELPHIA	
TRANSMITTAL OF LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/USO)	

CERTIFICATE OF MAILING BY EXPRESS MAIL UNDER 37 C.F.R. §1.10NO. OF EXPRESS MAIL LABEL EL997340993USDATE OF DEPOSIT WITH POSTAL SERVICE 03 April 2006

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above, and is addressed to the COMMISSIONER FOR PATENTS, MAIL STOP BOX PCT, P.O. Box 1450, Alexandria, VA 22313-1450.

Jane C. Bogan

Name of Person Mailing Paper or Fee

Jane C. Bogan
Signature of Person Mailing Paper or Fee